ORDER NO. AD8905141C2

Service Manual

Amplifier

SU-V560

Color

(K)…Black Type

Area

Country Code	Area	Color
(E), (E5)	Continental Europe	(K)
(EB)	Great Britain	(K)
(EG)	F.R. Germany & Italy	(K)

SPECIFICATIONS

(DIN 45 500)

■ AMPLIFIER SECTION

20 Hz～20 kHz continuous power output	
both channels driven	2 × 60 W (8 Ω)
1 kHz continuous power output	
both channels driven (THD: 1%)	2 × 70 W (8 Ω) 2 × 100 W (4 Ω)
63 Hz～12.5 kHz continuous power output	
both channels driven (0.7%)	2 × 60 W (8 Ω) 2 × 90 W (4 Ω)
Total harmonic distortion (Power Amp Direct input)	
rated power at 20 Hz～20 kHz	0.005 % (8 Ω)
rated power at 1 kHz	0.0009 % (8 Ω) 0.002 % (4 Ω)
half power at 20 Hz～20 kHz	0.005 % (8 Ω)
half power at 1 kHz	0.0009 % (8 Ω) 0.002 % (4 Ω)
Intermodulation distortion	
rated power at 50 Hz: 7 kHz = 4:1, SMPTE, 8 Ω	0.007 %
Residual hum and noise	0.2 mV
Damping factor	60 (8 Ω), 30 (4 Ω)
Headphones output level and impedance	540 mV/330 Ω
Load impedance	
A or B	4 Ω～16 Ω
A and B	8 Ω～16 Ω
Input sensitivity and impedance	
PHONO MM	2.5 mV/47 kΩ
PHONO MC	170 μV/220 Ω
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	150 mV/22 kΩ
POWER AMP DIRECT	1 V/18 kΩ
Phono maximum input voltage (IHF '66, 1 kHz, RMS)	
MM	160 mV
MC	12 mV
S/N	
rated power (4 Ω)	
PHONO MM	77 dB (IHF '66: 83 dB)
PHONO MC	64 dB (IHF '66: 64 dB, 250 μV)
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	97 dB (IHF '66: 100 dB)
POWER AMP DIRECT	106 dB (IHF '66: 115 dB)
−26 dB power (4 Ω)	
PHONO MM	76 dB
PHONO MC	63 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	84 dB
50 mW power (4 Ω)	
PHONO MM	75 dB
PHONO MC	63 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	78 dB
Frequency response	
PHONO	RIAA standard curve ±0.8 dB (30 Hz～15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	3 Hz～100 kHz (−3 dB) +0 dB, −0.2 dB (20 Hz～20 kHz)
POWER AMP DIRECT	2 Hz～120 kHz (−3 dB) +0 dB, −0.2 dB (20 Hz～20 kHz)
Tone controls	
BASS	50 Hz, +10 dB, −10 dB
TREBLE	20 kHz, +10 dB, −10 dB
Loudness control (volume at −30 dB)	50 Hz, +9 dB
Output voltage	
TAPE 1, TAPE 2/DAT REC OUT	150 mV
Channel balance, AUX 250 Hz～6,300 Hz	±1 dB
Channel separation, AUX 1 kHz	50 dB

■ GENERAL

Power consumption	520 W
Power Supply For Great Britain	AC 50 Hz/60 Hz, 240 V
For others	AC 50 Hz/60 Hz, 220 V
Dimensions (W × H × D)	430 × 125 × 320 mm (16-15/16" × 4-15/16" × 12-5/8")
Weight	8.8 kg (19.36 lb.)

Notes:

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

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Central P.O. Box 288, Osaka 530-91, Japan

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■ BEFORE REPAIR AND ADJUSTMENT

(1) Turn off the power supply. Using a 10Ω, 10W resistor, shortcircuit both ends of power supply capacitors (C705,C706)in order to discharge the voltage.

(2) Before turning on the power switch of the unit.

A. Connect the voltage controller to the primary side.

B. Connect the AC ampere meter to the primary side or connect the DC voltage meter to the "±B" circuit of the secondary side.

C. Turn the VR of ICQ (VR451 and VR452) to minimum (counterclockwise).

D. After setting the output to zero of the voltage contoller,turn on the power switch of the unit.
And increase the output of voltage controller gradually.
Then, check carefully whether the current value of primary side become more than following value or whether the DC voltage of secondary side is increasing slowly.

E. If the value of current is increasing unusually or the DC voltage is not increasing,lower the output level of voltage contoller immediately.

- The current value of the primary side at no signal. (Confirm the power supply voltage of each area and provided voltage of the unit.)

Power supply voltage		AC 220 V	AC 240 V
Consumed current	50 Hz	68~272 mA	61~243 mA
	60 Hz	64~256 mA	58~230 mA

■ PROTECTION CIRCUITRY

The protection circuitry of the amplifier may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted" , or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlined below:
1.Turn off the power.
2.Determine the cause of the problem and correct it.
3.Turn on the power once again.

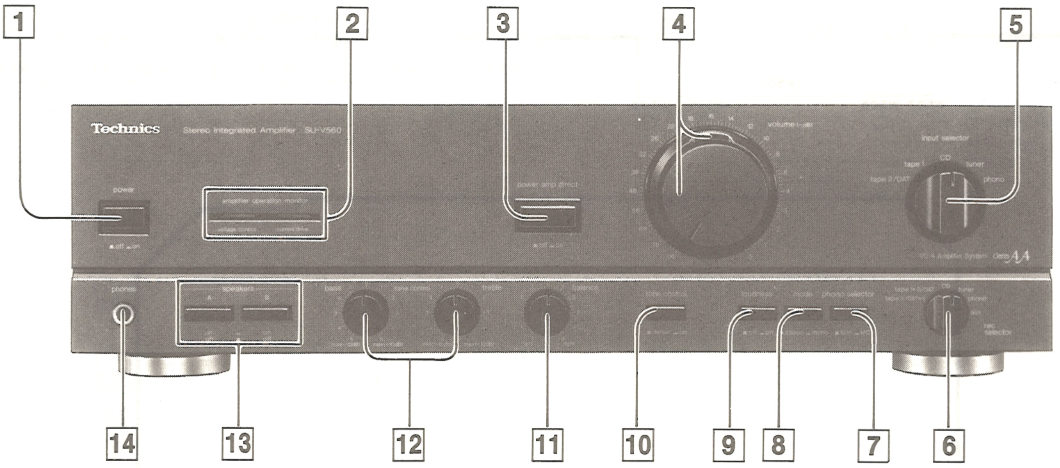
Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ ACCESSORIES

- **AC power supply cord 1**
  (SFDAC05E03) .... For (E), (E5) and (EG) areas.
  (SJA193) .... For (EB) area only.

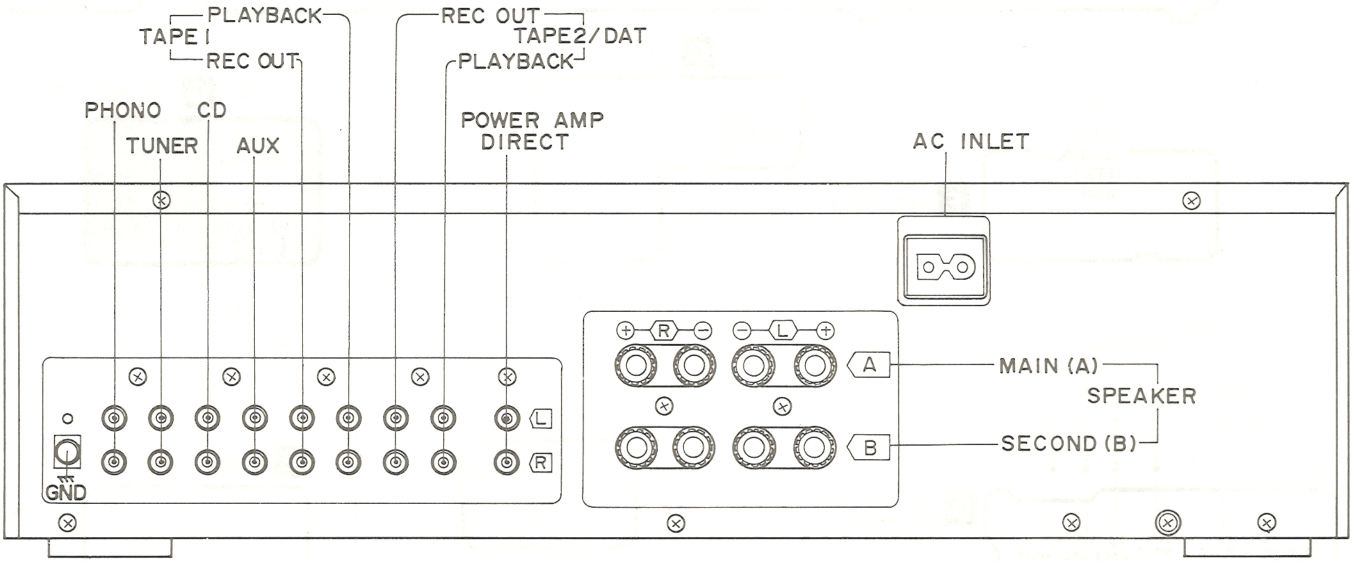
■ LOCATION OF CONTROLS

●Front Panel


1
2
3
4
5
Technics
Stereo Integrated Amplifier SU-V560
power
amplifier operation monitor
power amp direct
volume
input selector
phones
speakers
bass
tone control
treble
balance
tone control
loudness
mode
phono selector
rec selector
14
13
12
11
10
9
8
7
6

1 Power switch (power)
2 Operation indicators (amplifier operation monitor)
3 Power amplifier direct switch (power amp direct)
4 Volume control/indicator (volume)
5 Input selector (input selector)
6 Recording output selector (rec selector)
7 Phono cartridge selector (phono selector)
8 Mode selector (mode)
9 Loudness switch (loudness)
10 Tone control switch (tone control)
11 Balance control (balance)
12 Tone controls (bass/treble)
13 Speaker selectors (speakers)
14 Headphones jack (phones)

●Rear Panel


TAPE I
PLAYBACK
REC OUT
REC OUT
TAPE2/DAT
PLAYBACK
PHONO
CD
TUNER
AUX
POWER AMP DIRECT
AC INLET
R
L
A
B
MAIN (A)
SPEAKER
SECOND (B)
L
R
GND

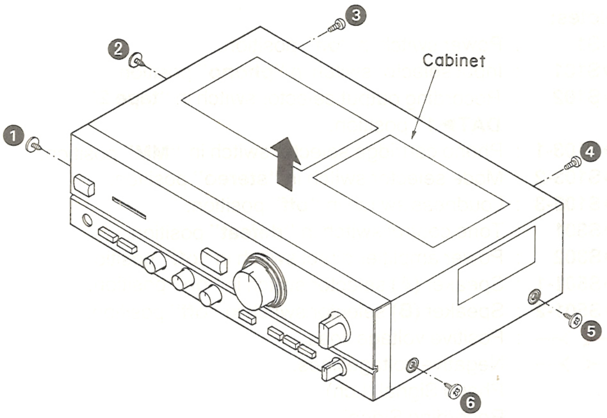
*Phono input capacitance is about 270 pF for EG area (about 100 pF for other areas).

■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1

Removal of the cabinet

Procedure 1

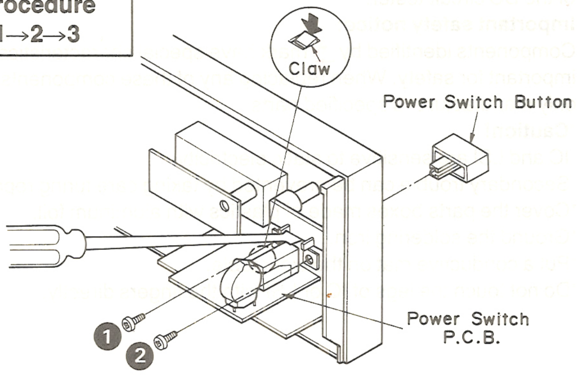

❸
❷
Cabinet
❶
❹
❺
❻

- Remove the 6 screws (❶~❻).

Ref. No. 3

Removal of the power switch P.C.B.

Procedure 1→2→3

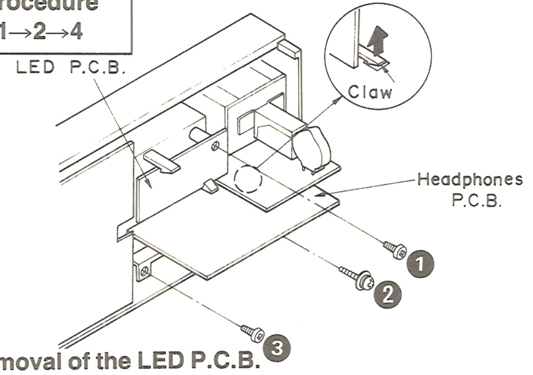

Claw
Power Switch Button
Power Switch P.C.B.
❶
❷

1. Remove the power switch button by pushing it from behind the front panel.
2. Remove the 2 screws (❶, ❷).
3. Release the 1 claw.

Ref. No. 4

Removal of the LED P.C.B. and headphones P.C.B.

Procedure 1→2→4


LED P.C.B.
Claw
Headphones P.C.B.
❶
❷
❸

Removal of the LED P.C.B.

1. Remove the 1 screw (❶).
2. Release the 2 claws.

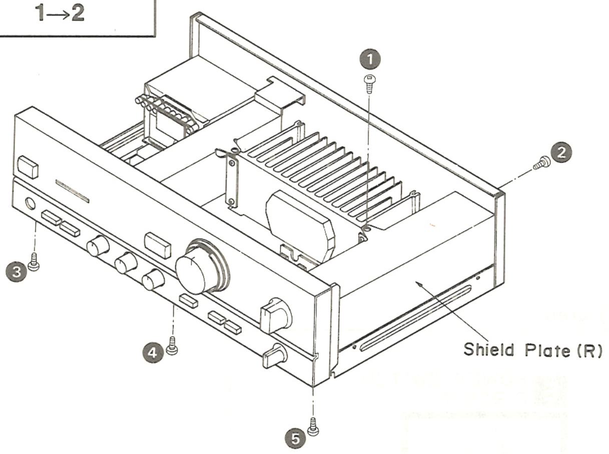
Removal of the headphones P.C.B.

1. Remove the 2 screws (❷, ❸).
2. Release the 1 claw.

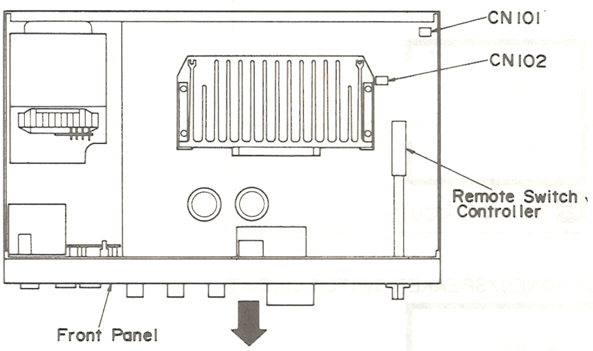
Ref. No. 2

Removal of the front panel

Procedure 1→2


❶
❷
❸
❹
❺
Shield Plate (R)

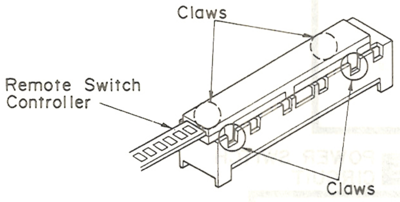
1. Remove the 2 screws (❶, ❷).
2. Remove the shield plate (R).
3. Remove the 3 screws (❸~❺).


CN101
CN102
Remote Switch Controller
Front Panel

4. Remove the 2 connectors (CN101, CN102).
5. Remove the remote switch controller.
6. Remove the front panel in the direction of the arrow.

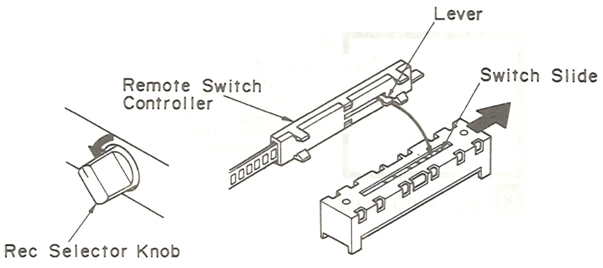
■ Removal of the remote switch controller

- Remove the 4 claws.


Claws
Remote Switch Controller
Claws

■ Replacing of the remote switch controller

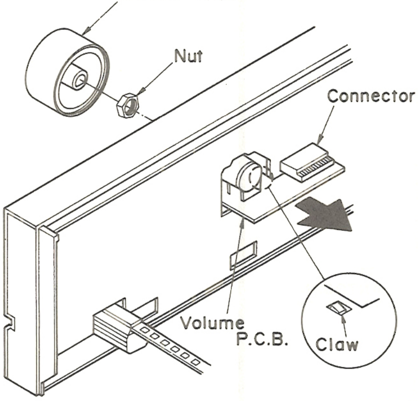
1. Fully rotate the Recording Selector Control counterclockwise.
2. Push the Switch Slide in the direction of the arrow.


Lever
Remote Switch Controller
Switch Slide
Rec Selector Knob

Ref. No.
5

Removal of the volume P.C.B.

Procedure
1→2→5

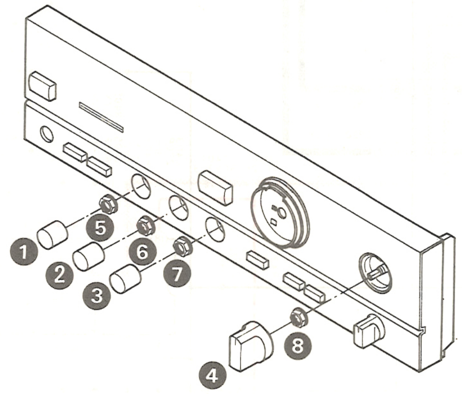

Volume Knob
Nut
Connector
Volume P.C.B.
Claw

1. Pull out the volume knob.
2. Remove the nut.
3. Release the 1 claw.

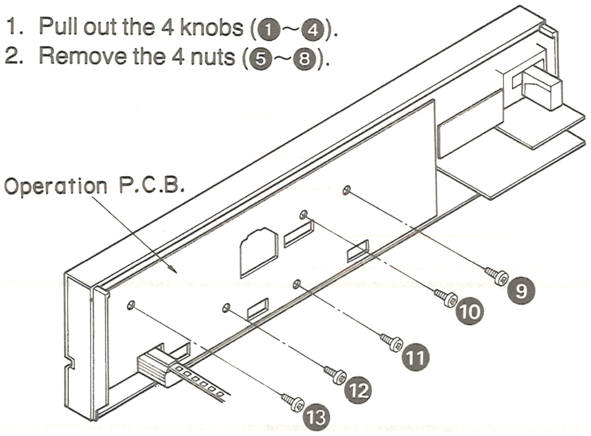
Ref. No.
6

Removal of the operation P.C.B.

Procedure
1→2→5→6



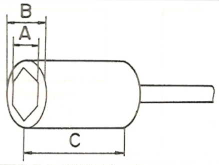
1. Pull out the 4 knobs (①~④).
2. Remove the 4 nuts (⑤~⑧).


Operation P.C.B.
⑨
⑩
⑪
⑫
⑬

3. Remove the 5 screws (⑨~⑬).

- Use a wrench of the dimensions shown in the illustration above to remove nuts.

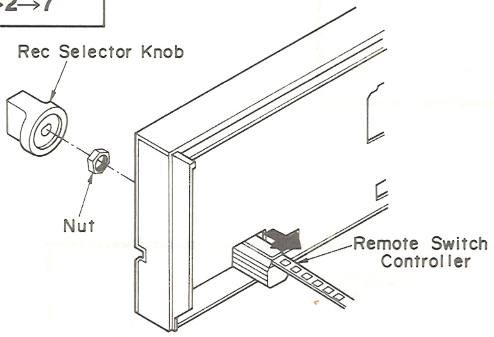
A: 11 mm
B: 16 mm
C: longer than 22 mm



Ref. No.
7

Removal of the remote switch controller

Procedure
1→2→7

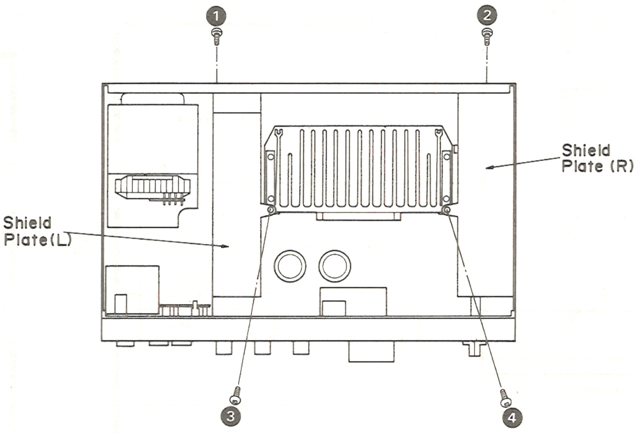

Rec Selector Knob
Nut
Remote Switch Controller

1. Pull out the rec selector knob.
2. Remove the nut.
3. Remove the remote switch controller in the direction of the arrow.

Ref. No.
8

Removal of the shield plate (L) and shield plate (R)

Procedure
1→8

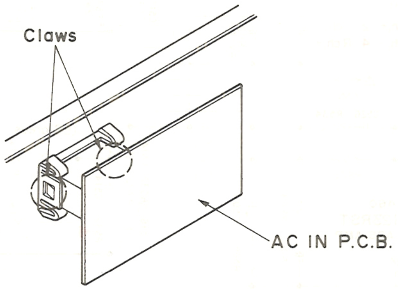

①
②
Shield Plate (R)
Shield Plate(L)
③
④

- Remove the 4 screws (①~④).

Ref. No.
9

Removal of the AC IN P.C.B.

Procedure
1→9

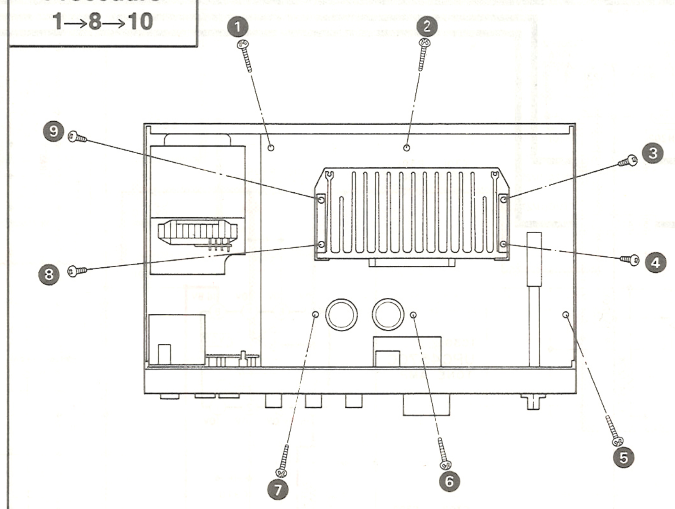

Claws
AC IN P.C.B.

- Release the 2 claws.

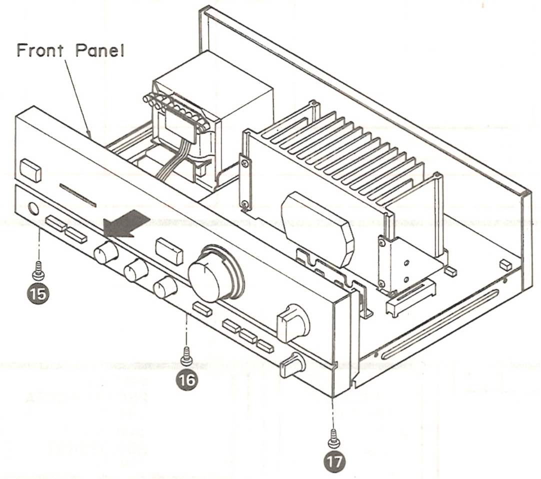
Ref. No.
10

Checking of the main P.C.B.

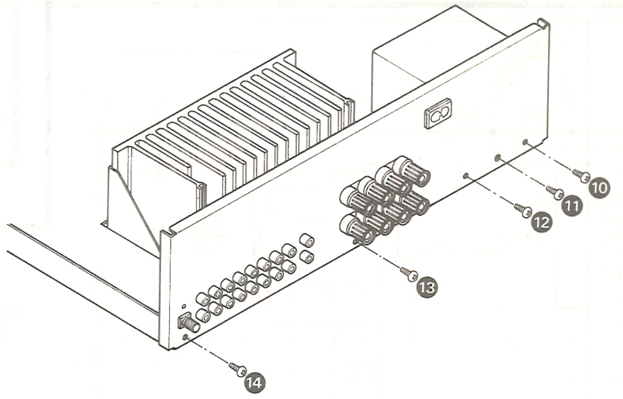
Procedure
1→8→10



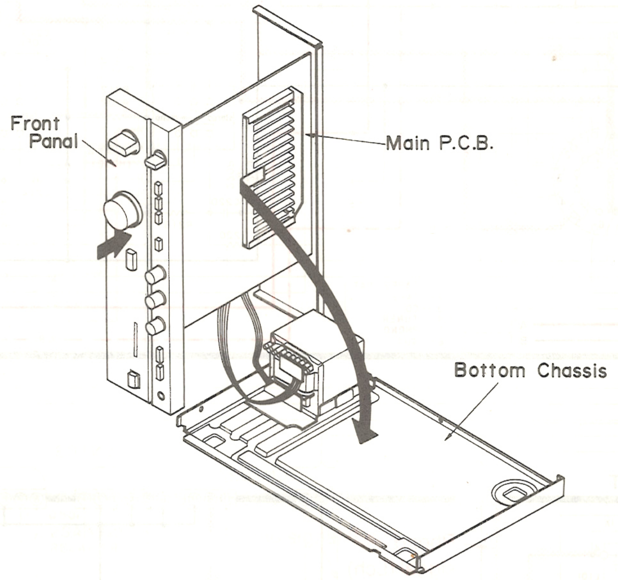
1. Remove the 9 screws (①~⑨).


Front Panel
⑮
⑯
⑰

3. Remove the 3 screws (⑮~⑰).
4. Remove the front panel.



2. Remove the 5 screws (⑩~⑭).


Front Panal
Main P.C.B.
Bottom Chassis

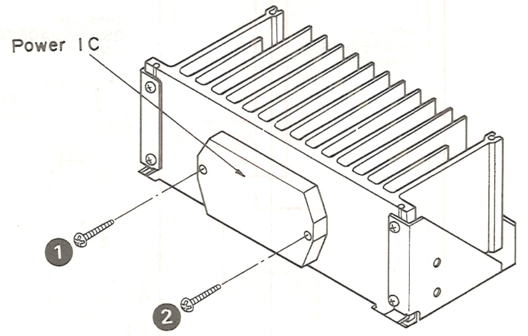
5. Remove the bottom chassis in the direction of the arrow Ⓐ.
6. Reinstall the front panel to the main P.C.B.

Ref. No.
11

Removal of the power IC

Procedure
1→8→10→11

1. Unsolder the power IC.
2. Remove the 2 screws (①, ②).

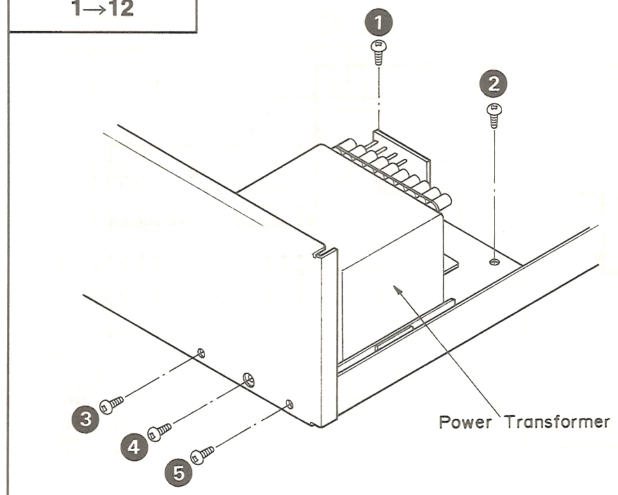


- When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC.

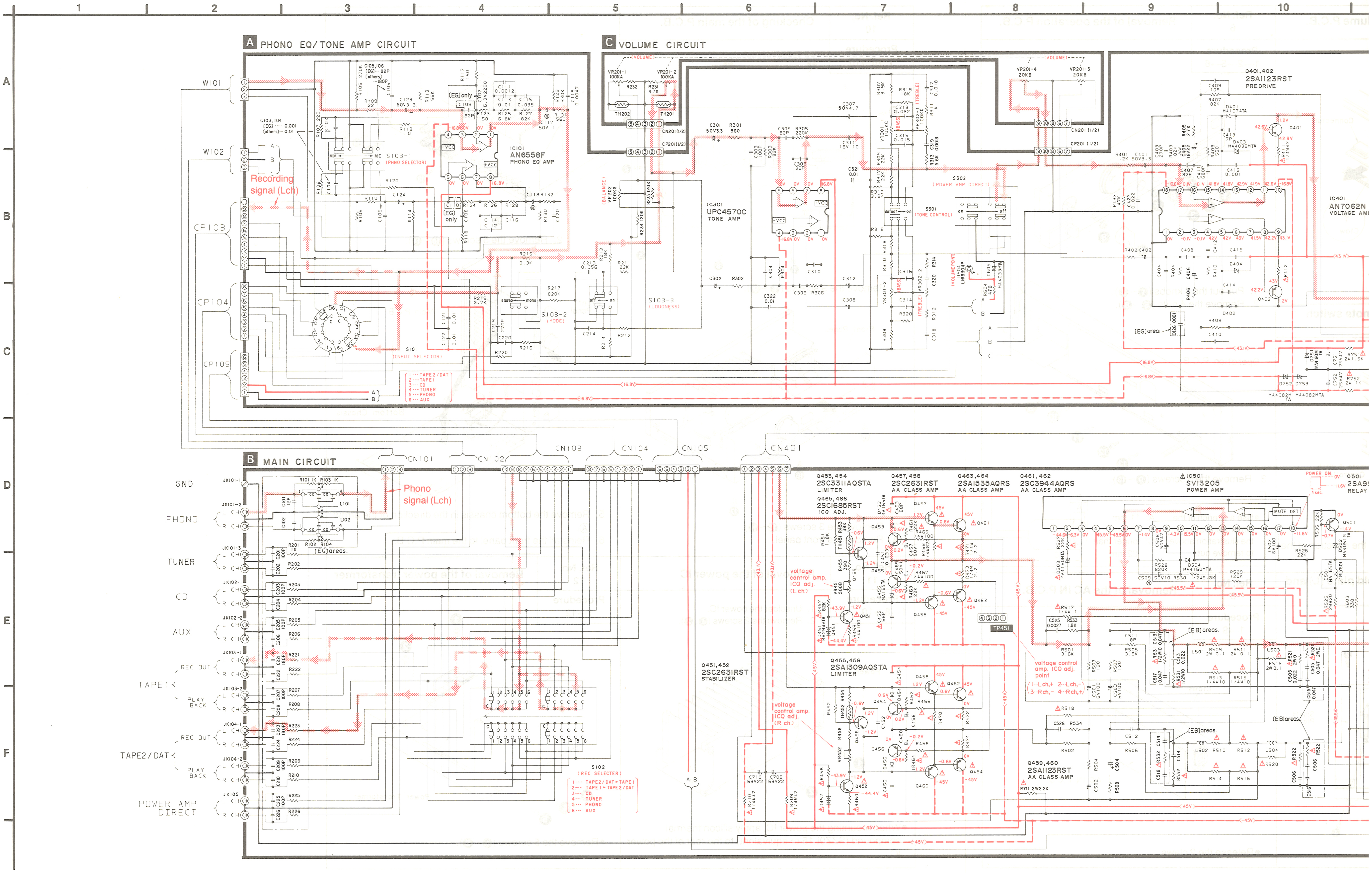
Ref. No.
12

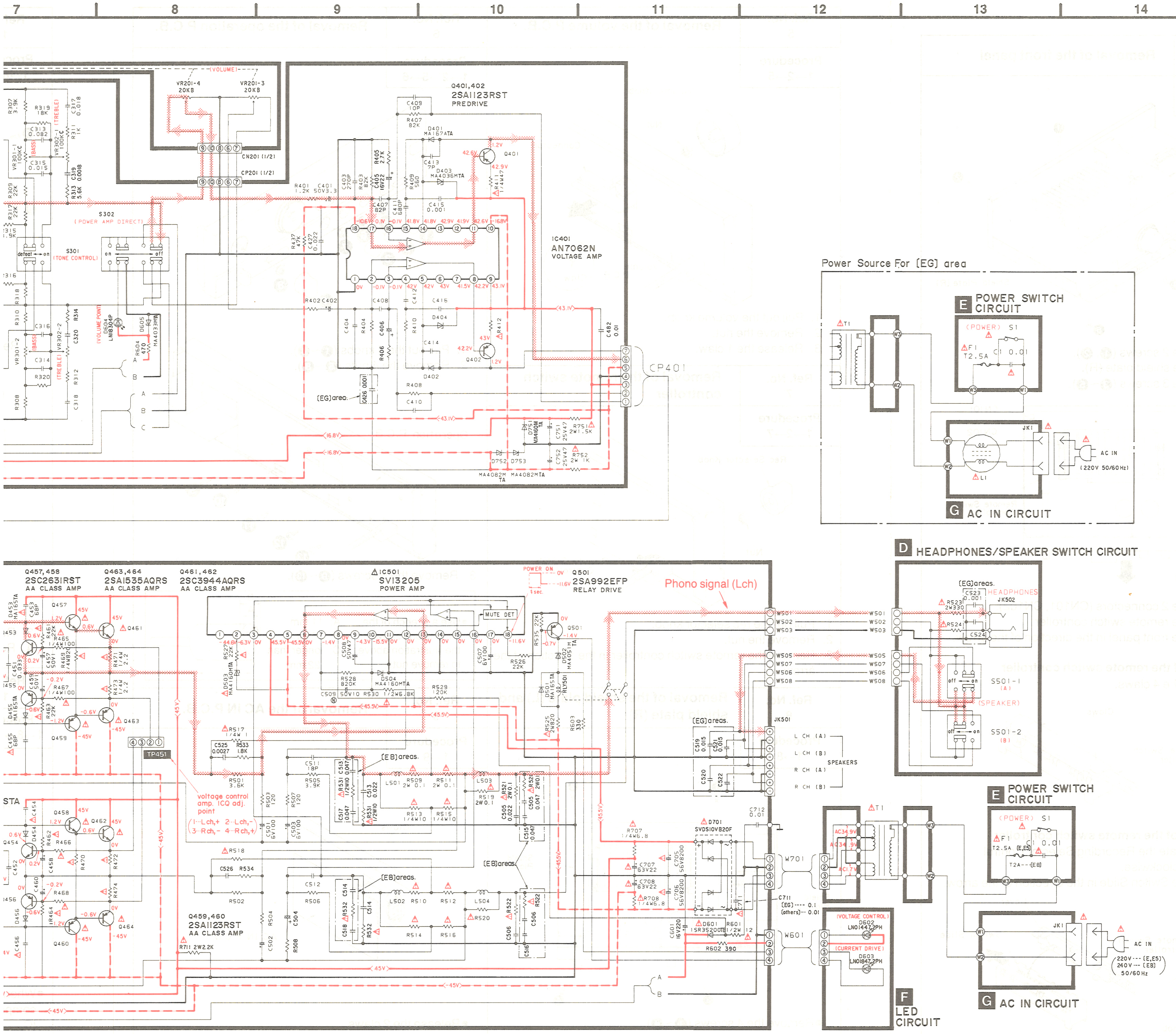
Removal of the power transformer

Procedure
1→12


①
②
③
④
⑤
Power Transformer

- Remove the 5 screws (①~⑤).


A PHONO EQ/TONE AMP CIRCUIT
C VOLUME CIRCUIT
B MAIN CIRCUIT
W101
W102
CP103
CP104
CP105
Recording signal (Lch)
Phono signal (Lch)
IC101 AN6558F PHONO EQ AMP
S103-1 (PHONO SELECTOR)
S103-2 (MODE)
S103-3 (LOUDNESS)
S101 (INPUT SELECTOR)
1---TAPE2/DAT
2---TAPE1
3---CD
4---TUNER
5---PHONO
6---AUX
IC301 UPC4570C TONE AMP
S301 (TONE CONTROL)
S302 (POWER AMP DIRECT)
VR201-1 100KA
VR201-2 100KA
VR201-4 20KB
VR201-3 20KB
VR202 100KB (BALANCE)
Q401,402 2SA1123RST PREDRIVE
IC401 AN7062N VOLTAGE AMP
[EG] area
CN101
CN102
CN103
CN104
CN105
CN401
GND
PHONO
TUNER
CD
AUX
TAPE1
REC OUT
PLAY BACK
TAPE2/DAT
POWER AMP DIRECT
S102 (REC SELECTOR)
1--- TAPE2/DAT→TAPE1
2--- TAPE1→TAPE2/DAT
3--- CD
4--- TUNER
5--- PHONO
6--- AUX
Q451,452 2SC2631RST STABILIZER
Q453,454 2SC3311AQSTA LIMITER
Q465,466 2SC1685RST ICQ ADJ.
Q457,458 2SC2631RST AA CLASS AMP
Q463,464 2SA1535AQRS AA CLASS AMP
Q461,462 2SC3944AQRS AA CLASS AMP
Q455,456 2SA1309AQSTA LIMITER
Q459,460 2SA1123RST AA CLASS AMP
IC501 SVI3205 POWER AMP
Q501 2SA9 RELAY
voltage control amp. ICQ adj. (L ch.)
voltage control amp. ICQ adj. (R ch.)
voltage control amp. ICQ adj. point (1-Lch,- 2-Lch,- 3-Rch,- 4-Rch,+)
TP451
[EB] areas.
POWER ON


7
8
9
10
11
12
13
14
15
16
17
VOLUME
VR201-4 20KB
VR201-3 20KB
CN201 (1/2)
CP201 (1/2)
Q401,402 2SA1123RST PREDRIVE
D401 MA167ATA
D403 MA4036MTA
IC401 AN7062N VOLTAGE AMP
S302 (POWER AMP DIRECT)
S301 (TONE CONTROL)
defeat on
BASS
TREBLE
VOLUME POINT
[EG] area
CP401
D751 MA4160M TA
D752 D753 MA4082M MA4082MTA
Power Source For [EG] area
POWER SWITCH CIRCUIT
E
(POWER) S1
F1 T2.5A
T1
JK1
AC IN (220V 50/60Hz)
L1
G AC IN CIRCUIT
D HEADPHONES/SPEAKER SWITCH CIRCUIT
[EG]areas.
HEADPHONES JK502
S501-1 (A)
(SPEAKER)
S501-2 (B)
off on
Q457,458 2SC2631RST AA CLASS AMP
Q463,464 2SA1535AQRS AA CLASS AMP
Q461,462 2SC3944AQRS AA CLASS AMP
IC501 SVI3205 POWER AMP
POWER ON 1sec
Q501 2SA992EFP RELAY DRIVE
Phono signal (Lch)
MUTE DET
RL501
TP451
voltage control amp. ICQ adj. point
(1-Lch,+ 2-Lch,- 3-Rch,- 4-Rch,+)
[EB]areas.
Q459,460 2SA1123RST AA CLASS AMP
JK501
L CH (A)
L CH (B)
R CH (A)
R CH (B)
SPEAKERS
D701 SVDS10VB20F
W701
W601
D601 1SR35200TB
C711 [EG]---- 0.1 (others)--- 0.01
(VOLTAGE CONTROL) D602 LN01447ZPH
(CURRENT DRIVE) D603 LN01847ZPH
F LED CIRCUIT
E POWER SWITCH CIRCUIT
T2A---[EB]
AC IN 220V--- [E,ES] 240V--- [EB] 50/60Hz
G AC IN CIRCUIT
STA

■ SCHEMATIC DIAGRAM

(Parts list on page 18~21)

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

•S1	:	Power switch in **"on"** position.
•S101	:	Input selector switch in **"phono"** position.
•S102	:	Recording output selector switch in **"tape 2/ DAT▶1"** position.
•S103-1	:	Phono cartridge selector switch in **"MM"** position.
•S103-2	:	Mode selector switch in **"stereo"** position.
•S103-3	:	Loudness switch in **"off"** position.
•S301	:	Tone control switch in **"defeat"** position.
•S302	:	Power amplifier direct switch in **"off"** position.
•S501-1	:	Speaker **(A)** selector switch in **"on"** position.
•S501-2	:	Speaker **(B)** selector switch in **"off"** position.
—≺ ≻—	:	Positive voltage lines.
--≺ ≻--	:	Negative voltage lines.
⇒⇒	:	Phono Signal (Lch)
⇒⇒	:	Recording Signal

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

***Caution!**

IC and LSI are sensitive to static electricity.

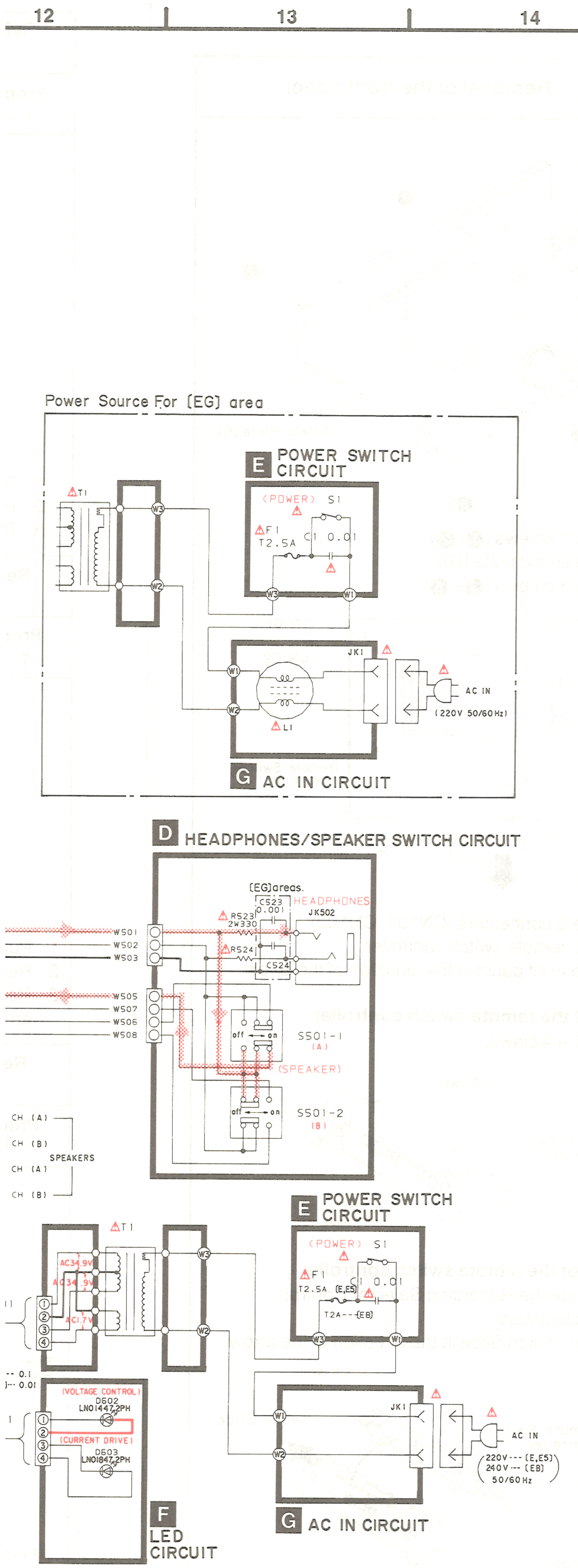
Secondary trouble can be prevented by taking care furing repair.

*Cover the parts boxes made of plastics with aluminum foil.

*Ground the soldering iron.

*Put a conductive mat on the work table.

*Do not touch the legs of IC or LSI with the fingers directly.


12
13
14
15
16
17
Power Source For (EG) area
E POWER SWITCH CIRCUIT
(POWER) S1
F1 T2.5A
C1 0.01
T1
W1
W2
W3
JK1
L1
AC IN
(220V 50/60Hz)
G AC IN CIRCUIT
D HEADPHONES/SPEAKER SWITCH CIRCUIT
(EG)areas.
C523 0.001
HEADPHONES
JK502
R523 2W330
R524
C524
W501
W502
W503
W505
W507
W506
W508
off on
S501-1 (A)
(SPEAKER)
S501-2 (B)
CH (A)
CH (B)
SPEAKERS
CH (A)
CH (B)
E POWER SWITCH CIRCUIT
(POWER) S1
F1 T2.5A
(E,ES)
C1 0.01
T2A---(EB)
T1
AC34.9V
AC34.9V
AC17V
(VOLTAGE CONTROL)
D602 LN01447Z2PH
(CURRENT DRIVE)
D603 LN01847Z2PH
F LED CIRCUIT
G AC IN CIRCUIT
JK1
AC IN
220V --- (E,ES)
240V --- (EB)
50/60Hz

■ SCHEMATIC DIAGRAM

(Parts list on page 18~21)

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

●**S1** : Power switch in "**on**" position.
●**S101** : Input selector switch in "**phono**" position.
●**S102** : Recording output selector switch in "**tape 2/ DAT▶1**" position.
●**S103-1** : Phono cartridge selector switch in "**MM**" position.
●**S103-2** : Mode selector switch in "**stereo**" position.
●**S103-3** : Loudness switch in "**off**" position.
●**S301** : Tone control switch in "**defeat**" position.
●**S302** : Power amplifier direct switch in "**off**" position.
●**S501-1** : Speaker **(A)** selector switch in "**on**" position.
●**S501-2** : Speaker **(B)** selector switch in "**off**" position.
—< >— : Positive voltage lines.
--< >-- : Negative voltage lines.
→ : Phono Signal (Lch)
→ : Recording Signal

●Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

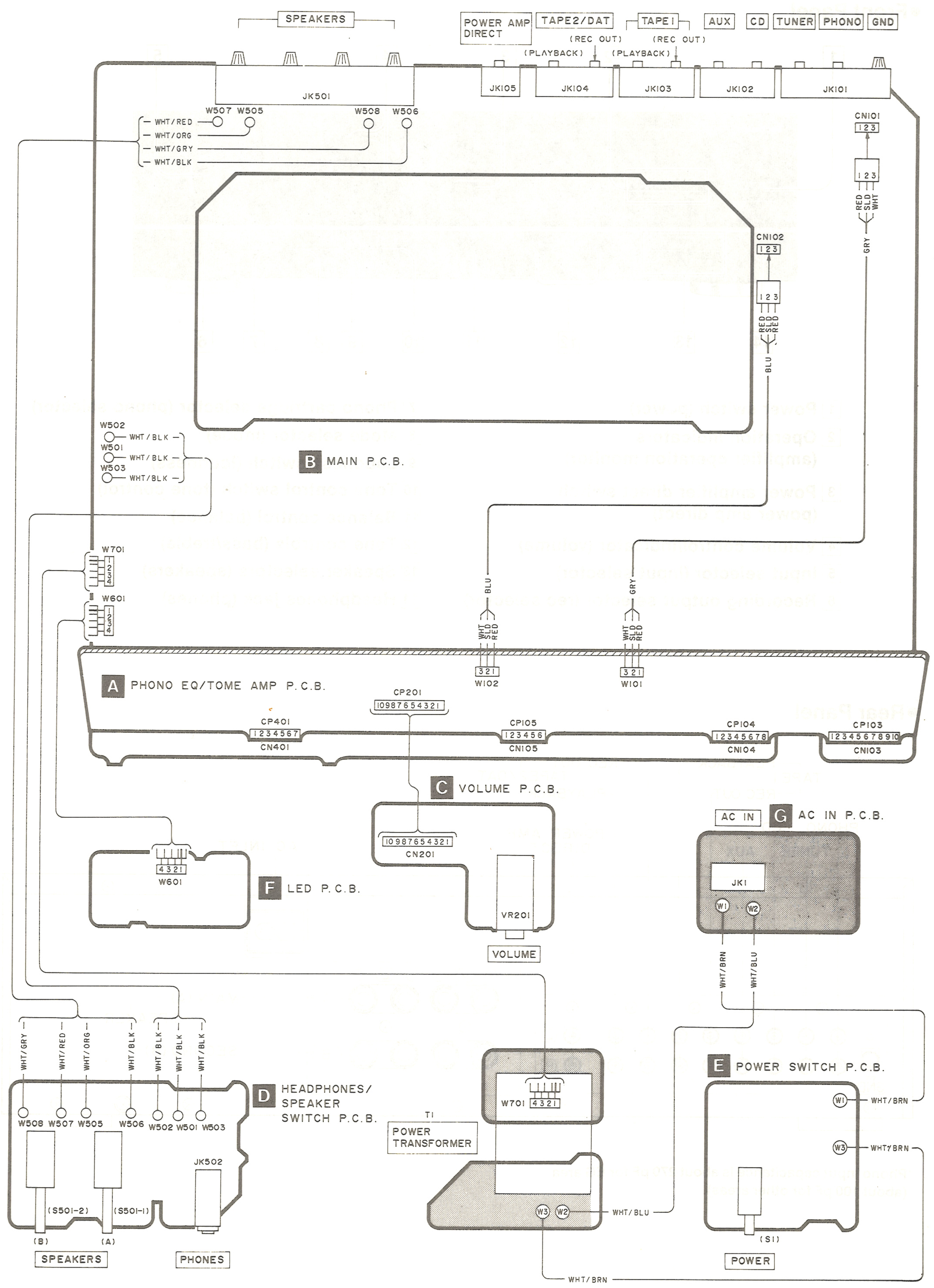
Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

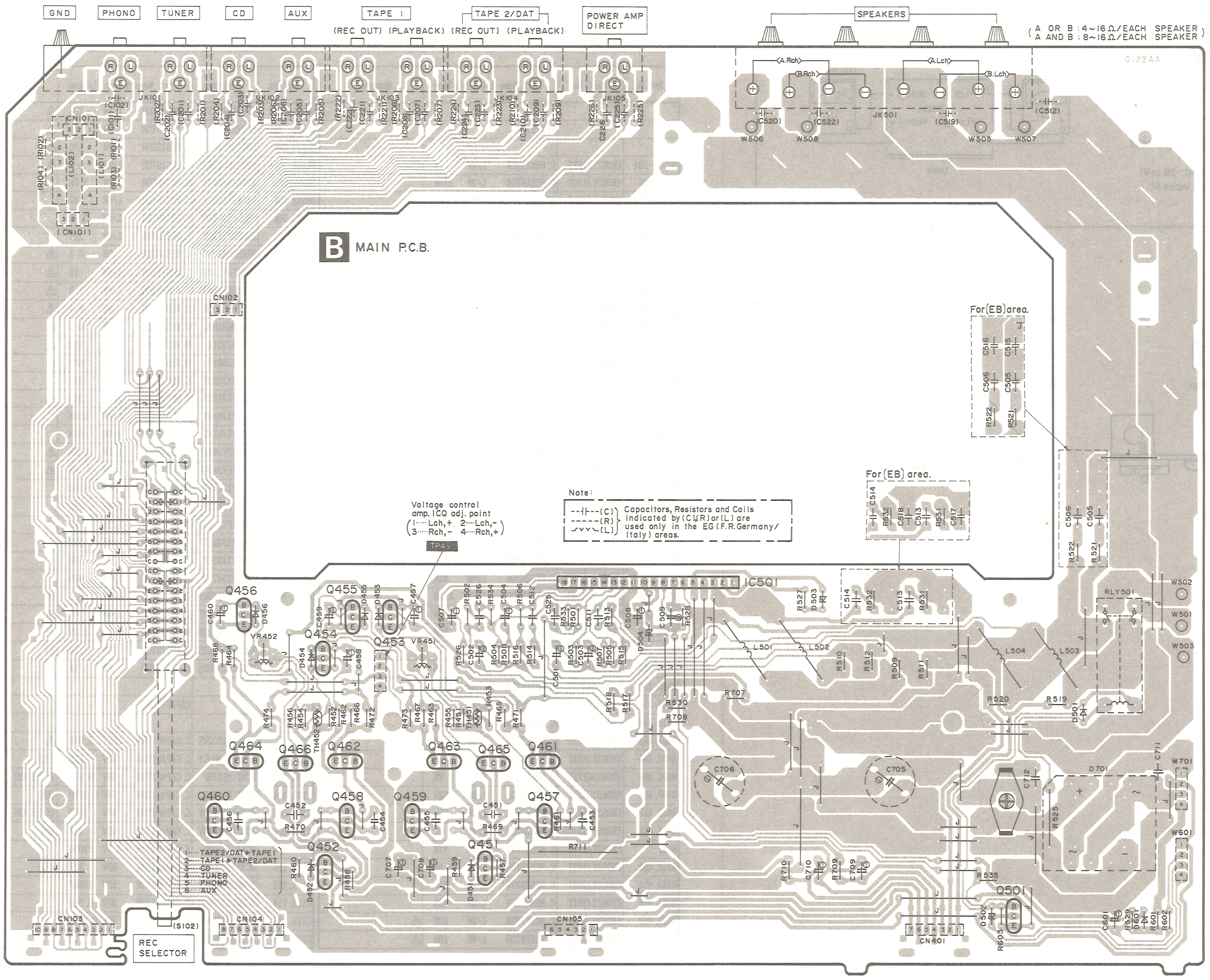
***Caution!**

IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care furing repair.
*Cover the parts boxes made of plastics with aluminum foil.
*Ground the soldering iron.
*Put a conductive mat on the work table.
*Do not touch the legs of IC or LSI with the fingers directly.

■ WIRING CONNECTION DIAGRAM


SPEAKERS
POWER AMP DIRECT
TAPE2/DAT
TAPE1
AUX
CD
TUNER
PHONO
GND
(REC OUT)
(PLAYBACK)
(REC OUT)
(PLAYBACK)
JK501
JK105
JK104
JK103
JK102
JK101
W507 W505
W508 W506
WHT/RED
WHT/ORG
WHT/GRY
WHT/BLK
CN101
CN102
RED SLD WHT
GRY
RED SLD RED
BLU
W502
W501
W503
WHT/BLK
B MAIN P.C.B.
W701
W601
BLU
GRY
WHT SLD RED
W102
W101
A PHONO EQ/TOME AMP P.C.B.
CP201
CP401
CN401
CP105
CN105
CP104
CN104
CP103
CN103
C VOLUME P.C.B.
CN201
VR201
VOLUME
F LED P.C.B.
W601
AC IN
G AC IN P.C.B.
JK1
W1
W2
WHT/BRN
WHT/BLU
WHT/GRY
WHT/RED
WHT/ORG
WHT/BLK
D HEADPHONES/ SPEAKER SWITCH P.C.B.
W508 W507 W505 W506 W502 W501 W503
JK502
(S501-2)
(S501-1)
(B)
(A)
SPEAKERS
PHONES
T1
POWER TRANSFORMER
W701
W3
W2
WHT/BLU
WHT/BRN
E POWER SWITCH P.C.B.
W1
W3
WHT/BRN
WHT/BRN
(S1)
POWER

■ PRINTED CIRCUIT BOARDS (Parts list on page 18~21)

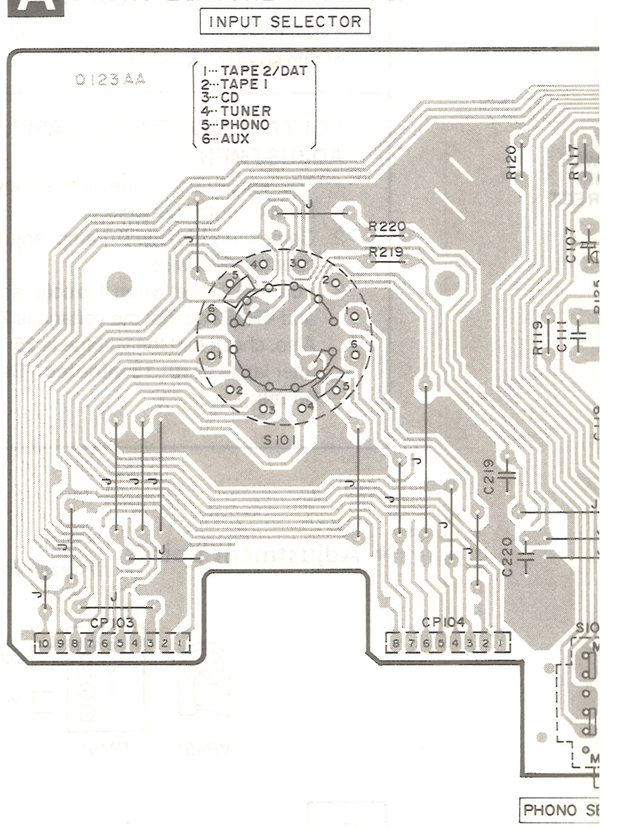

GND
PHONO
TUNER
CD
AUX
TAPE 1
TAPE 2/DAT
(REC OUT) (PLAYBACK) (REC OUT) (PLAYBACK)
POWER AMP DIRECT
SPEAKERS
A.Rch
B.Rch
A.Lch
B.Lch
JK101
JK102
JK103
JK104
JK105
JK501
CN101
CN102
0122AA
B MAIN P.C.B.
For(EB)area.
IC501
RLY501
Q451
Q452
Q453
Q454
Q455
Q456
Q457
Q458
Q459
Q460
Q461
Q462
Q463
Q464
Q465
Q466
Q501
VR451
VR452
TP451
L501
L502
L503
L504
C705
C706
D701
W501
W502
W503
W505
W506
W507
W508
W601
W701
CN103
CN104
CN105
CN401
(S102)
REC SELECTOR
1……TAPE2/DAT▸TAPE1
2……TAPE1▸TAPE2/DAT
3……CD
4……TUNER
5……PHONO
6……AUX

(A OR B : 4~16Ω/EACH SPEAKER
A AND B : 8~16Ω/EACH SPEAKER)

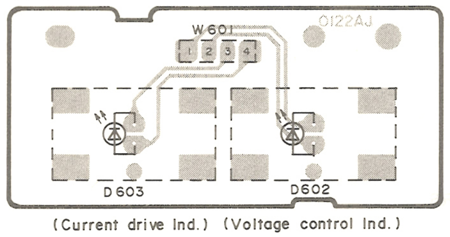
Voltage control amp. ICQ adj. point
(1……Lch,+ 2……Lch,−
3……Rch,− 4……Rch,+)

Note :
--||--(C)
-----(R)
⌒⌒⌒(L)
Capacitors, Resistors and Coils indicated by (C),(R) or (L) are used only in the EG (F.R.Germany/Italy) areas.

A PHONO EQ/TONE AMP P.C.B.

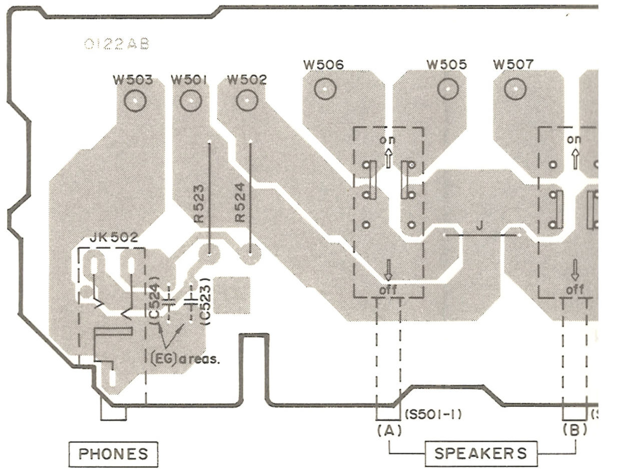

INPUT SELECTOR
0123AA
1…TAPE 2/DAT
2…TAPE 1
3…CD
4…TUNER
5…PHONO
6…AUX
S101
CP103
CP104
PHONO SE

F LED P.C.B.

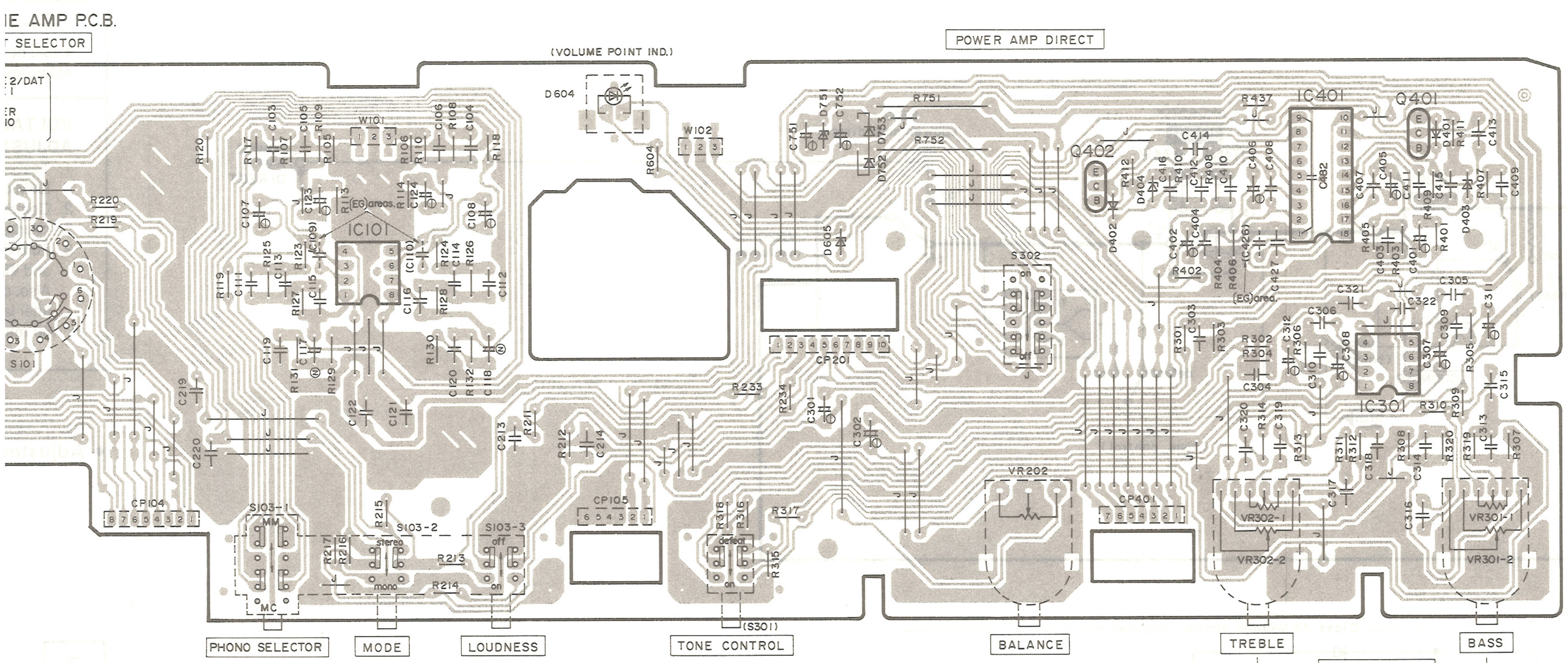

W601
0122AJ
D603
D602

(Current drive Ind.) (Voltage control Ind.)

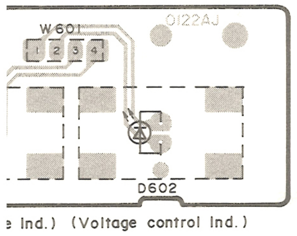
D HEADPHONES/SPEAKER SWITCH P.C.B.


0122AB
W503
W501
W502
W506
W505
W507
JK502
R523
R524
(C524)
(C523)
(EG)areas.
on
off
(S501-1)
(A)
(B)
PHONES
SPEAKERS

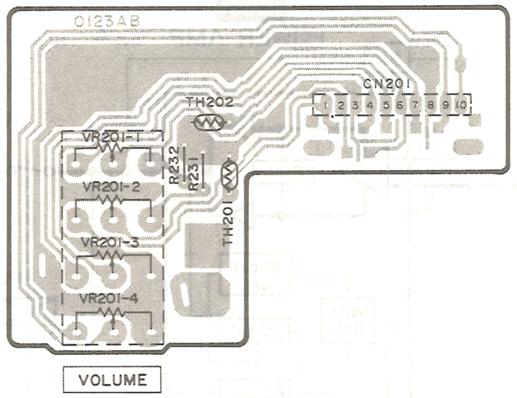
IE AMP P.C.B.


T SELECTOR
2/DAT
S101
(VOLUME POINT IND.)
D604
W102
R604
POWER AMP DIRECT
R751
R752
D751
C752
C751
D605
IC101
W101
(EG) areas
R120
R220
R219
IC401
Q401
Q402
R437
C414
D402
D404
R402
(EG) area
S302
CP201
CP104
CP105
CP401
IC301
R233
R234
R316
R317
R315
VR202
VR302-1
VR302-2
VR301-1
VR301-2
S103-1
S103-2
S103-3
MM
MC
stereo
mono
off
on
defeat
R213
R214
R215
(S301)
PHONO SELECTOR
MODE
LOUDNESS
TONE CONTROL
BALANCE
TREBLE
BASS
TONE CONTROL

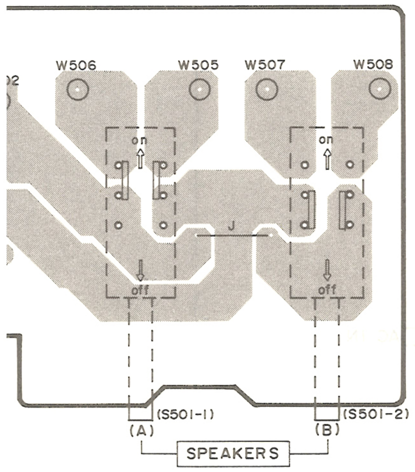
C.B.


W601
0122AJ
D602
e Ind.) (Voltage control Ind.)

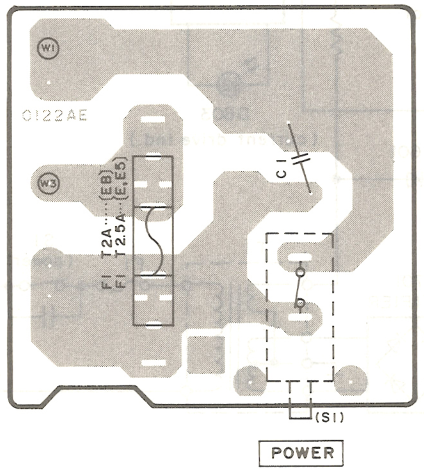
C VOLUME P.C.B.

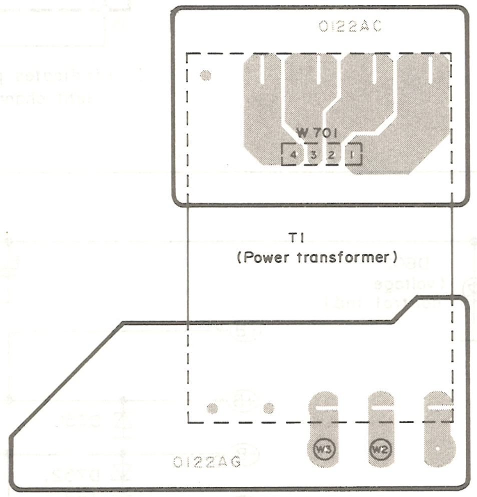

0123AB
CN201
TH202
VR201-1
VR201-2
VR201-3
VR201-4
R232
R231
TH201
VOLUME

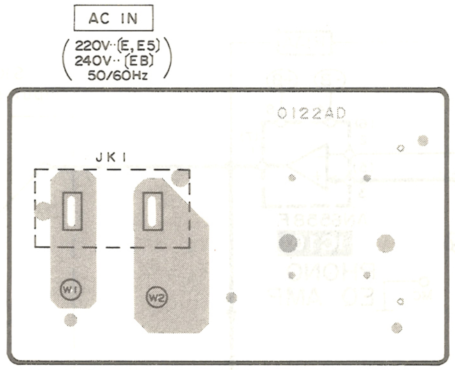
SPEAKER SWITCH P.C.B.


W506
W505
W507
W508
on
off
(S501-1)
(S501-2)
(A)
(B)
SPEAKERS

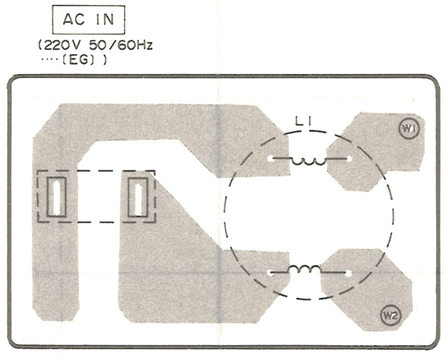
E POWER SWITCH P.C.B.


0122AE
W1
W3
F1 T2A···(EB)
F1 T2.5A···(E, E5)
C1
(S1)
POWER


0122AC
W701
T1
(Power transformer)
0122AG
W3
W2

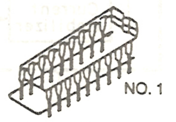
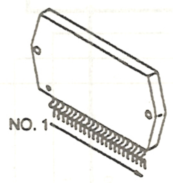
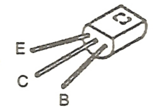
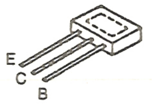
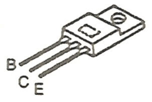
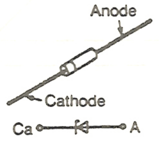
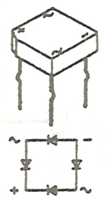
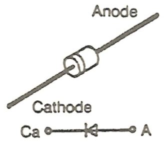
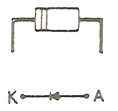

AC IN
220V···(E, E5)
240V···(EB)
50/60Hz
0122AD
JK1
W1
W2

G AC IN P.C.B.

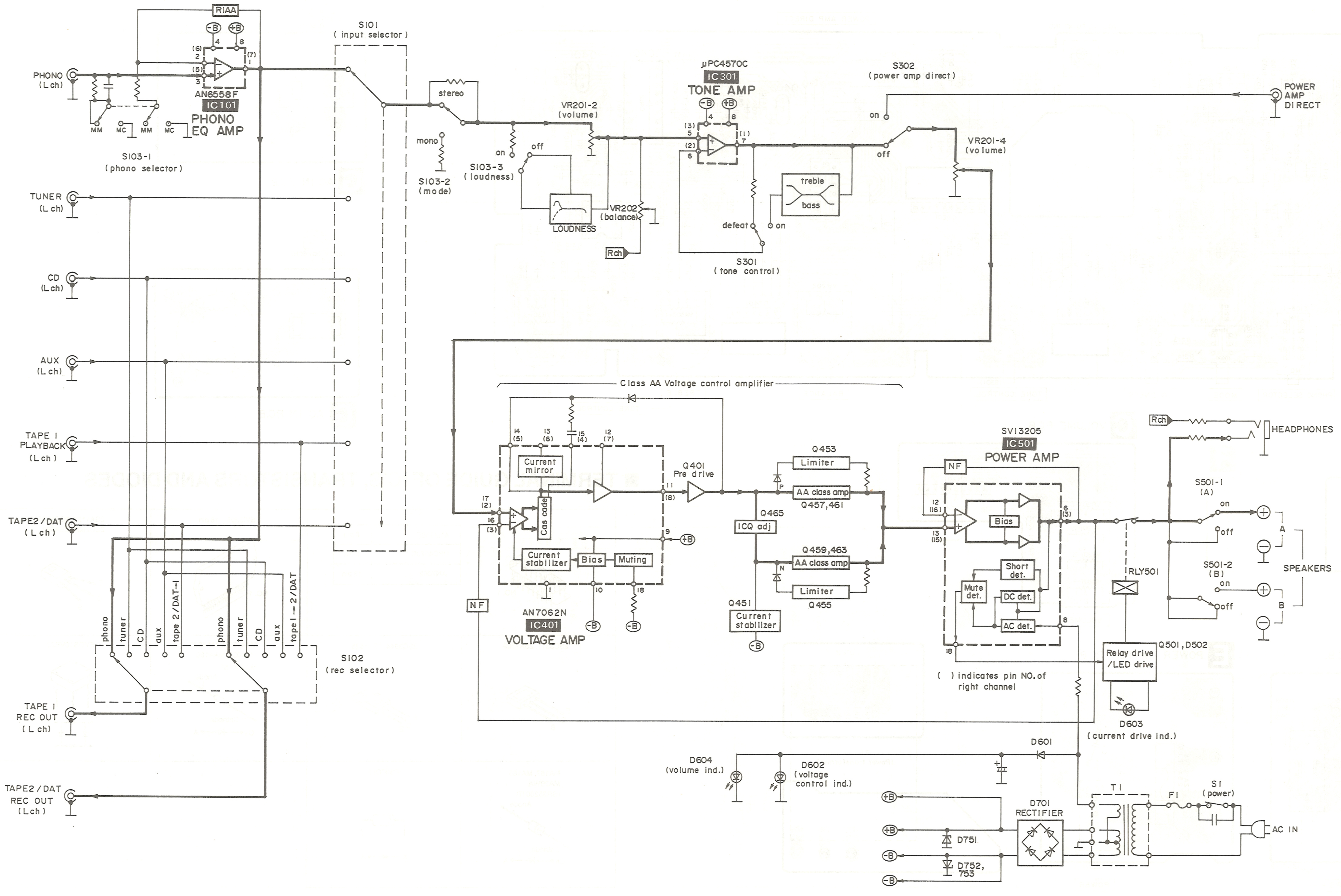

AC IN
(220V 50/60Hz
····(EG))
L1
W1
W2

G AC IN P.C.B.

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

 NO. 1 AN6558F 8 pin UPC4570C 8 pin AN7062 18 pin		SVI3205 18 pin  NO. 1	2SA1123, 2SC1685 2SC2631, 2SA992  E C B
2SC3311, 2SA1309  E C B	2SC3944, 2SA1535  B C E	MA4160M, MA4033 MA4036, MA4180 MA4051M  Anode Cathode Ca A	SVDS10VB20  ~ − + ~
MA167, MA165 MA29WA 1SR35200TB  Anode Cathode Ca A	P300DLF  K A		

■ BLOCK DIAGRAM


RIAA
-B
+B
PHONO (L ch)
(6) 2
(5) 3
4
8
(7) 1
AN6558F
IC101
PHONO EQ AMP
MM
MC
MM
MC
S103-1 (phono selector)
S101 (input selector)
stereo
mono
S103-2 (mode)
on
off
S103-3 (loudness)
LOUDNESS
VR201-2 (volume)
VR202 (balance)
Rch
μPC4570C
IC301
TONE AMP
(3) 5
(2) 6
(1) 7
treble
bass
defeat
on
S301 (tone control)
S302 (power amp direct)
on
off
POWER AMP DIRECT
VR201-4 (volume)
TUNER (L ch)
CD (L ch)
AUX (L ch)
TAPE 1 PLAYBACK (L ch)
TAPE2/DAT (L ch)
phono
tuner
CD
aux
tape 2/DAT→1
phono
tuner
CD
aux
tape 1→2/DAT
S102 (rec selector)
TAPE 1 REC OUT (L ch)
TAPE2/DAT REC OUT (L ch)
Class AA Voltage control amplifier
14 (5)
13 (6)
15 (4)
12 (7)
Current mirror
Cas code
11 (8)
17 (2)
16 (3)
9
Current stabilizer
Bias
Muting
1
10
18
-B
-B
+B
AN7062N
IC401
VOLTAGE AMP
NF
Q401 Pre drive
Q453
Limiter
P
AA class amp
Q457,461
Q465
ICQ adj
Q459,463
N
AA class amp
Limiter
Q455
Q451
Current stabilizer
-B
SV13205
IC501
POWER AMP
NF
12 (16)
13 (15)
6 (3)
Bias
Short det.
Mute det.
DC det.
AC det.
8
18
( ) indicates pin NO. of right channel
Rch
HEADPHONES
S501-1 (A)
on
off
S501-2 (B)
on
off
A
B
SPEAKERS
RLY501
Q501,D502
Relay drive /LED drive
D603 (current drive ind.)
D601
D604 (volume ind.)
D602 (voltage control ind.)
+B
+B
-B
-B
D751
D752, 753
D701 RECTIFIER
T1
F1
S1 (power)
AC IN

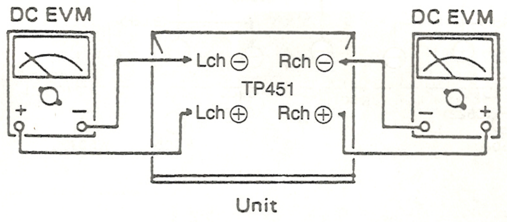
■ MEASUREMENTS AND ADJUSTMENTS

Control positions and equipment used.

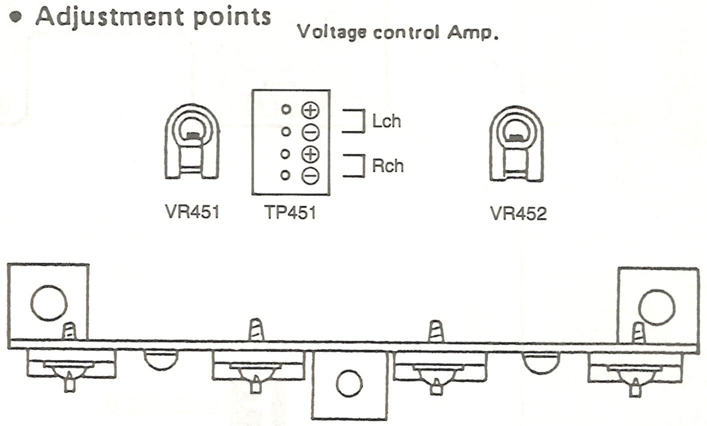
●Volume knob .... ∞ (Minimum)
●Main speaker selector .... off
●Balance knob 0
●DC electronic voltmeter (EVM)

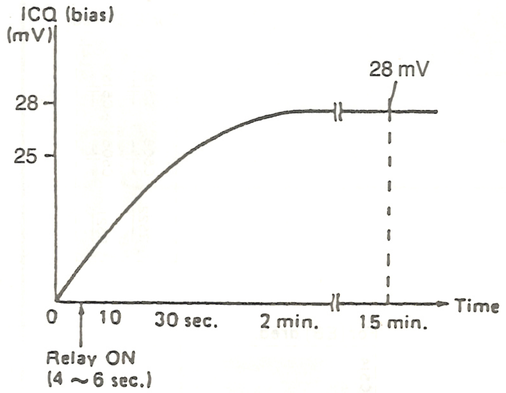
VOLTAGE CONTROL (V) AMP. IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure. (Connect the DC EVM on both channels.)
2. Completely turn the (V) amp. adjusting volumes (**VR451, VR452**) counter-clockwise.
3. Turn ON the set when it is cold, and 15 sec. later, adjust **VR451** and **VR452** so that the voltage is **25 mV**.
   Also, check that the voltage is **25~30 mV** (standard: **28 mV**) after lapse of **10–15 minutes**. (Below **30 mV** after lapse of **60 min.**)



● **Adjustment points**





■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the first page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R101~104	ERDS2TJ102T	C. RESISTOR 1/4W 1K	(EG)
R105, 106	ERDS2TJ274T	C. RESISTOR 1/4W 270K	
R107, 108	ERDS2TJ221T	C. RESISTOR 1/4W 220	
R109, 110	ERDS2TJ220T	C. RESISTOR 1/4W 22	
R113, 114	ERDS2TJ563T	C. RESISTOR 1/4W 56K	
R117, 118	ERDS2TJ151T	C. RESISTOR 1/4W 150	
R119, 120	ERDS2TJ100T	C. RESISTOR 1/4W 10	
R123, 124	ERDS2TJ151T	C. RESISTOR 1/4W 150	
R125, 126	ERDS2TJ682T	C. RESISTOR 1/4W 6.8K	
R127, 128	ERDS2TJ823T	C. RESISTOR 1/4W 82K	
R129, 130	ERDS2TJ334T	C. RESISTOR 1/4W 330K	
R131, 132	ERDS2TJ561T	C. RESISTOR 1/4W 560	
R201 210	ERDS2TJ102T	C. RESISTOR 1/4W 1K	(EG)
R211, 212	ERDAS3G223T	C. RESISTOR 1/4W 22K	
R213, 214	ERDS2TJ183T	C. RESISTOR 1/4W 18K	
R215, 216	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	
R217	ERDS2TJ824T	C. RESISTOR 1/4W 820K	
R219, 220	ERDAS3G272T	C. RESISTOR 1/4W 2.7K	
R221~224	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R225, 226	ERDS2TJ102T	C. RESISTOR 1/4W 1K	(EG)
R231, 232	ERDAS3G472T	C. RESISTOR 1/4W 4.7K	
R233, 234	ERDAS3G124T	C. RESISTOR 1/4W 120K	
R301, 302	ERDAS3G561T	C. RESISTOR 1/4W 560	
R303, 304	ERDS2TJ823T	C. RESISTOR 1/4W 82K	
R305, 306	ERDS2TJ224T	C. RESISTOR 1/4W 220K	
R307, 308	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K	
R309, 310	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R311, 312	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R313, 314	ERDS2TJ562T	C. RESISTOR 1/4W 5.6K	
R315, 316	ERDAS3G392T	C. RESISTOR 1/4W 3.9K	
R317, 318	ERDAS3G223T	C. RESISTOR 1/4W 22K	
R319, 320	ERDS2TJ183T	C. RESISTOR 1/4W 18K	
R401, 402	ERDS2TJ122T	C. RESISTOR 1/4W 1.2K	
R403, 404	ERDS2TJ823T	C. RESISTOR 1/4W 82K	
R405, 406	ERDAS3G272T	C. RESISTOR 1/4W 2.7K	
R407, 408	ERDAS3G823T	C. RESISTOR 1/4W 82K	
R409, 410	ERDS2TJ561T	C. RESISTOR 1/4W 560	
R411, 412	ERD25FVJ470T	C. RESISTOR 1/4W 47	⚠
R437	ERDS2TJ473T	C. RESISTOR 1/4W 47K	
R451, 452	ERDS2TJ182T	C. RESISTOR 1/4W 1.8K	
R453, 454	ERDS2TJ393T	C. RESISTOR 1/4W 39K	
R455, 456	ERDS2TJ391T	C. RESISTOR 1/4W 390	
R457, 458	ERDS2TJ823T	C. RESISTOR 1/4W 82K	⚠
R459, 460	ERD25FVJ101T	C. RESISTOR 1/4W 100	⚠
R461 464	ERDS2TJ223T	C. RESISTOR 1/4W 22K	⚠
R465 468	ERD25FVJ101T	C. RESISTOR 1/4W 100	⚠
R469, 470	ERD25FVJ821T	C. RESISTOR 1/4W 820	⚠
R471 474	ERD25FVJ2R2T	C. RESISTOR 1/4W 2.2	⚠
R501, 502	ERDS2TJ362T	C. RESISTOR 1/4W 3.6K	
R503, 504	ERDS2TJ121T	C. RESISTOR 1/4W 120	
R505, 506	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K	
R507, 508	ERDS2TJ121T	C. RESISTOR 1/4W 120	
R509 512	RREEMKR10SC	C. RESISTOR 2W 0.1	⚠
R513 516	ERD25FVJ100T	C. RESISTOR 1/4W 10	⚠
R517, 518	ERD25FVJ1R0T	C. RESISTOR 1/4W 1.0	⚠
R519, 520	RREEMKR10SC	C. RESISTOR 2W 0.1	⚠
R521, 522	RREEMKR10SC	C. RESISTOR 2W 0.1	⚠
R523, 524	ERG2SJ331H	M. RESISTOR 2W 330	⚠
R525	ERG2SJ821H	M. RESISTOR 2W 820	⚠
R526	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R527	ERDS2TJ223T	C. RESISTOR 1/4W 22K	⚠
R528	ERDS2TJ824T	C. RESISTOR 1/4W 820K	
R529	ERDS2TJ124T	C. RESISTOR 1/4W 120K	
R530	ERDS1FVJ682T	C. RESISTOR 1/2W 6.8K	⚠
R531, 532	ERDS1FVJ100T	C. RESISTOR 1/2W 10	⚠
R533, 534	ERDS2TJ182T	C. RESISTOR 1/4W 1.8K	
R535	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R601	ERDS1FVJ120T	C. RESISTOR 1/2W 12	⚠
R602	ERDS2TJ391T	C. RESISTOR 1/4W 390	
R603	ERDS2TJ331T	C. RESISTOR 1/4W 330	
R604	ERDS2TJ471T	C. RESISTOR 1/4W 470	
R707, 708	ERD25FVJ6R8T	C. RESISTOR 1/4W 6.8	⚠
R709, 710	ERD25FVJ470T	C. RESISTOR 1/4W 47	⚠
R711	ERG2ANJP222S	M. RESISTOR 2W 2.2K	⚠
R751	ERG2ANJP152S	M. RESISTOR 2W 1.5K	⚠
R752	ERG2ANJP102S	M. RESISTOR 2W 1K	⚠
		CAPACITORS	
C1	ECKWNS103ZVS	C. CAPACITOR 250V 0.01U	⚠
C101, 102	RCBS1H120JLY	C. CAPACITOR 50V 12P	(EG)
C103, 104	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	(E, E5, EB)
C103, 104	ECKT1H102KB	C. CAPACITOR 50V 0.001U	(EG)
C105, 106	RCBS1H181KBY	C. CAPACITOR 50V 180P	(E, E5, EB)
C105, 106	RCBS1H820KBY	C. CAPACITOR 50V 82P	(EG)
C107, 108	ECEA0JU222E	E. CAPACITOR 6.3V 2200U	
C109, 110	RCBS1H820KBY	C. CAPACITOR 50V 82P	(EG)
C111, 112	ECQM1H122KV3	P. CAPACITOR 50V 1200P	
C113, 114	ECQM1H103KV3	P. CAPACITOR 50V 0.01U	
C115, 116	ECQV1H393JZ3	P. CAPACITOR 50V 0.039U	
C117, 118	UES1H010M1TA	E. CAPACITOR 50V 1U	

Ref. No.	Part No.	Part Name & Description	Remarks
C119, 120	ECQM1H472KV3	P. CAPACITOR 50V 4700P	
C121, 122	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C123, 124	ECEA1HPX3R3B	E. CAPACITOR 50V 3.3U	
C201～210	RCBS1H101KBY	C. CAPACITOR 50V 100P	(EG)
C213, 214	ECQV1H563JZ3	P. CAPACITOR 50V 0.056U	
C219, 220	RCBS1H271KBY	C. CAPACITOR 50V 270P	
C221～224	RCBS1H181KBY	C. CAPACITOR 50V 180P	(EG)
C225, 226	RCBS1H101KBY	C. CAPACITOR 50V 100P	(EG)
C301, 302	ECEA1HPX3R3B	E. CAPACITOR 50V 3.3U	
C303, 304	RCBS1H101KBY	C. CAPACITOR 50V 100P	
C305, 306	RCBS1H820KBY	C. CAPACITOR 50V 82P	
C307, 308	ECEA1HPX4R7B	E. CAPACITOR 50V 4.7U	
C309, 310	RCBS1H390JLY	C. CAPACITOR 50V 39P	
C311, 312	ECEA1CPX100B	E. CAPACITOR 16V 10U	
C313, 314	ECQV1H823JZ3	P. CAPACITOR 50V 0.082U	
C315, 316	ECQM1H153KV3	P. CAPACITOR 50V 0.015U	
C317, 318	ECQM1H183KV3	P. CAPACITOR 50V 0.018U	
C319, 320	ECQM1H182KV3	P. CAPACITOR 50V 1800P	
C321, 322	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C401, 402	ECEA1HPX3R3B	E. CAPACITOR 50V 3.3U	
C403, 404	RCBS1H271KBY	C. CAPACITOR 50V 270P	
C405, 406	ECEA1CPX220B	E. CAPACITOR 16V 22U	
C407, 408	RCBS1H820KBY	C. CAPACITOR 50V 82P	
C409, 410	RCBS1H100JLY	C. CAPACITOR 50V 10P	
C411, 412	RCBS1H681KBY	C. CAPACITOR 50V 680P	
C413, 414	ECCT2H070D	C. CAPACITOR 500V 7P	
C415, 416	ECQM1H102KV3	P. CAPACITOR 50V 1000P	

Ref. No.	Part No.	Part Name & Description	Remarks
C426	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	(EG)
C427	ECKT1H223ZF	C. CAPACITOR 50V 0.022U	
C451, 452	ECKT1H333ZF	C. CAPACITOR 50V 0.033U	
C453～456	ECCT2H680K	C. CAPACITOR 500V 68P	⚠
C457～460	ECEA1HK010B	E. CAPACITOR 50V 1U	
C482	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C501～504	ECEA0JPX101B	E. CAPACITOR 6.3V 100U	
C505, 506	ECKT1H223ZF	C. CAPACITOR 50V 0.022U	(E, E5, EG)
C505, 506	ECKT1H473ZF	C. CAPACITOR 50V 0.047U	(EB)
C507	ECEA0JK101B	E. CAPACITOR 6.3V 100U	
C508	ECEA1HU470B	E. CAPACITOR 50V 47U	
C509	ECEA1HN100S	E. CAPACITOR 50V 10U	
C511, 512	RCBS1H180JLY	C. CAPACITOR 50V 18P	
C513, 514	ECKT1H223ZF	C. CAPACITOR 50V 0.022U	(E, E5, EG)
C513～518	ECKT1H473ZF	C. CAPACITOR 50V 0.047U	(EB)
C519～522	ECQM1H153KV3	P. CAPACITOR 50V 0.015U	(EG)
C523, 524	ECBT1H102KB5	C. CAPACITOR 50V 0.001U	(EG)
C525, 526	ECQB1H272JZ3	P. CAPACITOR 50V 2700P	
C601	ECEA1CU221B	E. CAPACITOR 16V 220U	
C705, 706	ECES56V822UY	E. CAPACITOR 56V 8200U	⚠
C707, 708	ECEA1JU220	E. CAPACITOR 63V 22U	⚠
C709, 710	ECEA1JU220	E. CAPACITOR 63V 22U	
C711	ECKR2H103ZU	C. CAPACITOR 500V 0.01U	⚠(E, E5, EB)
C711	ECQE2104KS	P. CAPACITOR 200V 0.1U	⚠(EG)
C712	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C751, 752	ECEA1EPX470B	E. CAPACITOR 25V 47U	

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS	
IC101	AN6558F	IC, PHONO EQ AMP.	
IC301	UPC4570C	IC, TONE AMP.	
IC401	AN7062N	IC, V AMP.	
IC501	SVI3205	IC, POWER AMP.	⚠
		TRANSISTORS	
Q401, 402	2SA1123RST	TRANSISTOR	
Q451, 452	2SC2631RST	TRANSISTOR	⚠
Q453, 454	2SC3311AQSTA	TRANSISTOR	
Q455, 456	2SA1309AQSTA	TRANSISTOR	
Q457, 458	2SC2631RST	TRANSISTOR	⚠
Q459, 460	2SA1123RST	TRANSISTOR	⚠
Q461, 462	2SC3944AQRS	TRANSISTOR	⚠
Q463, 464	2SA1535AQRS	TRANSISTOR	⚠
Q465, 466	2SC1685RST	TRANSISTOR	
Q501	2SA992EFP	TRANSISTOR	
		DIODES	
D401, 402	MA167ATA	DIODE	
D403, 404	MA4036MTA	DIODE	
D451, 452	MA29WATA	DIODE	⚠
D453～456	MA165TA	DIODE	
D501	MA165TA	DIODE	
D502	MA4051MTA	DIODE	
D503	MA4160MTA	DIODE	⚠
D504	MA4160MTA	DIODE	
D601	1SR35200TB	DIODE	⚠
D602	LN014472PH	DIODE	
D603	LN018472PH	DIODE	
D604	LN018304P	DIODE	
D605	MA4033MTA	DIODE	
D701	SVDS10VB20F	DIODE	⚠
D751	MA4160MTA	DIODE	
D752, 753	MA4082MTA	DIODE	
		VARIABLE RESISTORS	
VR201	RRV16J01A	V. R, VOLUME CONTROL	
VR202	EWHFDA014G15	V. R, BALANCE	
VR301, 302	EWC2XA000C15	V. R, BASS/TREBLE	
VR451, 452	EVNDXAA00B52	V. R, ICQ ADJ.	
		THERMISTOR	
TH201, 202	ERTD2ZHL104T	THERMISTOR	
TH451, 452	ERTD2ZHL104T	THERMISTOR	

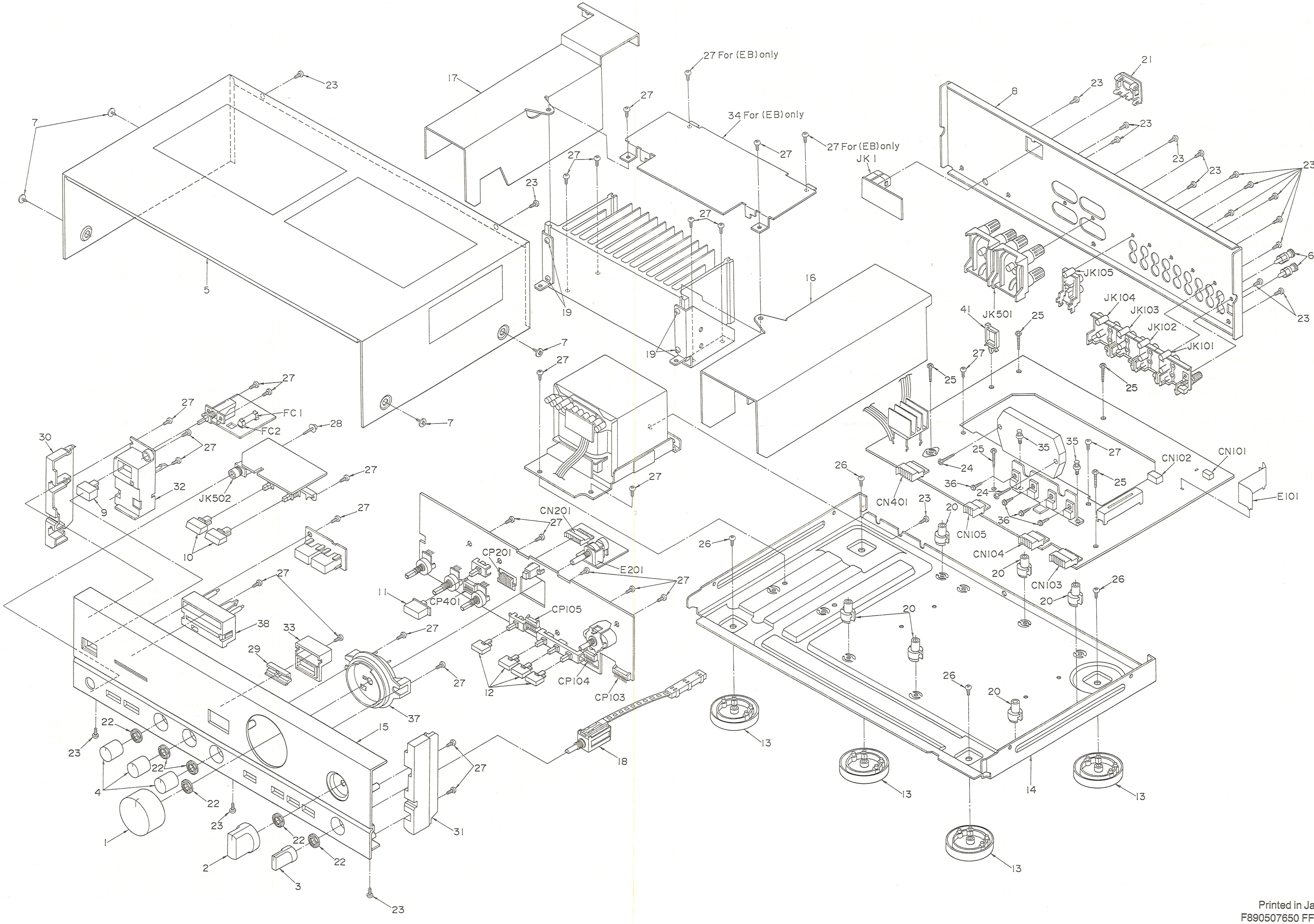
Ref. No.	Part No.	Part Name & Description	Remarks
		COILS	
L1	SLQZ650MH49	COIL	⚠(EG)
L101, 102	SLM1Z33	COIL	(EG)
L501～504	SLQY18G-10	COIL	
		TRANSFORMERS	
T1	RTP1P5E001-W	POWER TRANSFORMER	⚠(E, E5, EG)
T1	RTP1P5B001-W	POWER TRANSFORMER	⚠(EB)
		FUSES	
F1	XBA2C25TB0	FUSE 250V T2.5A	⚠(E, E5, EG)
F1	XBA2C20TB0	FUSE 250V T2.0A	⚠(EB)
		SWITCHES	
S1	ESB8249V	POWER	⚠
S101	RSR6B001	INPUT SELECTOR	
S102	RSS6D001	REC SELECTOR	
S103	ESB68106	MODE/LOUDNESS/PHONO	
S301	ESB68107	TONE CONTROL	
S302	ESB68109	POWER AMP DIRECT	
S501	RSP2002	SPEAKER SELECTOR	
		JACKS	
CN101, 102	SJT3319	CONNECTOR(3P)	
CN103	SJS51080WL	SOCKET(10P)	
CN104	SJS50880WL	SOCKET(8P)	
CN105	SJS50680WL	SOCKET(6P)	
CN201	SJS51080WL	SOCKET(10P)	
CN401	SJS50780WL	SOCKET(7P)	
CP103	SJT31047WL	CONNECTOR(10P)	
CP104	SJT30847WL	CONNECTOR(8P)	
CP105	SJT30647WL	CONNECTOR(6P)	
CP201	SJT31047WL	CONNECTOR(10P)	
CP401	SJT30747WL	CONNECTOR(7P)	
JK1	SJS9231-1B	AC INLET	⚠
JK101	SJF3067NJ	TERMINAL, PHONO/TUNER	
JK102～104	SJF3069N	TERMINAL, CD/AUX/TAPE1/TAPE2	
JK105	SJF3068NJ	TERMINAL, POWER AMP DIRECT	
JK501	SJF4819	TERMINAL, SPEAKER	
JK502	SJJD19	HEADPHONES JACK	
		SHIELD COVERS	
E101	SMC1299	SHIELD COVER	
E102	SMC949-1	SHIELD COVER	
E103	RMC0033	SHIELD COVER	
E201	RSQ0007	SHIELD COVER	

Ref. No.	Part No.	Part Name & Description	Remarks
		FUSE HOLDERS	
FC1, 2	SJT390	FUSE HOLDER	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
		RELAY	
RLY501	SSY126	RELAY	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RGW0025-K	VOLUME KNOB	
2	RGW0026-K	INPUT SELECTOR KNOB	
3	RGW0027-K	REC SELECTOR KNOB	
4	RGW0028-K	BALANCE/TONE KNOB	
5	RKM0036A-K	CABINET	
6	SJPA11-1	SHORTING PIN	
7	SNE2129-1	SCREW	
8	RGR0019A-E	REAR PANEL	(E)
8	RGR0051	REAR PANEL	(E5)
8	RGR0019A-G	REAR PANEL	(EB)
8	RGR0019A-F	REAR PANEL	(EG)
9	RGU0030	POWER BUTTON	
10	RGU0118-K	SPEAKER SELECT BUTTON	
11	RGU0119-K	POWER AMP DIRECT BUTTON	
12	RGU0120-K	SELECT BUTTON	
13	RKA0009-1	FOOT	
14	RMK0035	CHASSIS	
15	RYP0103	FRONT PANEL	
16	RSC0057	SHIELD PLATE (R)	
17	RSC0058	SHIELD PLATE (L)	
18	RSQ0004	REC SELECTOR	
19	XTB3+8J	SCREW	
20	SHE187-2	HOLDER	
21	SJS9231A	AC INLET COVER	
22	SNE4021-1	NUT	
23	XTBS3+8JFZ1	SCREW	
24	XTB3+16JFZ	SCREW	
25	XTB3+20J	SCREW	
26	XTB3+6J	SCREW	
27	XTB3+8JFZ	SCREW	
28	XTWS3+8T	SCREW	
29	RGK0097	ORNAMENT(GOLD LINE)	
30	RGK0098-K	SIDE ORNAMENT (L)	
31	RGK0099-K	SIDE ORNAMENT (R)	
32	RMR0136-K	HOLDER	
33	RMR0137-K	HOLDER	
34	RMQ0069	HEAT SINK COVER	(EB)
35	SHR415	LATCH	
36	XTW3+8T	SCREWS	
37	RGK0154-K	VOLUME ORNAMENT	
38	RGK0156-K	INDICATOR ORNAMENT	
41	SHR301	CLAMPER	
		PACKING MATERIAL	
P1	RPG0164	CARTON BOX	
P2	SPS5185	PAD	
P3	SPS5255-1	PAD	
P4	SPS5256-1	PAD	
P5	XZB60X60A01	PROTECTION COVER	
		ACCESSORIES	
A1	RQF0167	INSTRUCTIONS MANUAL	(E. E5)
A1	RQF0169	INSTRUCTIONS MANUAL	(EB)
A1	RQF0168	INSTRUCTIONS MANUAL	(EG)
A2	SFDAC05E03	POWER CORD	⚠(E. E5. EG)
A2	SJA193	POWER CORD	⚠(EB)

■ EXPLODED VIEW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